# State of Louisiana
# Comprehensive Inspection Form - Gas Distribution Pipeline

| | |
|---|---|
| **Name of Owner:** | |
| **Unit:** | **Operated by:** |
| **HQ Address:** | **System/Unit Name & Address:** |
| | |
| **Co. Official:**<br>**Title:**<br>**Phone No.:**<br>**Emergency Phone No.:** | **Operator contact:**<br>**Phone No.:**<br>**Fax No.:**<br>**Emergency Phone No.:** |

| Persons Interviewed | Title | Phone No. | E-mail address |
|---|---|---|---|
| | | | |
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**Inspector:** **Inspection Date(s)**

**Company System Maps** available for review?

**Unit Description**

**Portion of Unit Inspected:**

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| GAS SYSTEM OPERATIONS | |
|---|---|
| **Gas Supplier** | **Date:** |
| **Unaccounted for Gas:** | **Services:** *Residential* *Commercial* *Industrial* *Other* |

| MAOP | Operating Pressure(s) (Within last year) | Actual Operating Pressure (At time of Inspection) |
|---|---|---|
| Feeder: | | |
| Town: | | |
| Other: | | |
| Does the operator have any transmission pipelines? | | |

## 49CFR PART 191

| | REPORTING PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| **.605(b)(4)** | Procedures for gathering data for incident reporting | | | | | |
| | 191.5 | Telephonically reporting incidents to **NRC (800) 424-8802 La. DNR (225) 342-5505** | | | | |
| | 191.15(a) | 30-day follow-up written report (**Form 7100-2**) | | | | |
| | 191.15(b) | Supplemental report (to 30-day follow-up) | | | | |
| **.605(a)** | 191.23 | Reporting safety-related condition (SRCR) | | | | |
| | 191.25 | Filing the SRCR within 5 days of determination, but not later than 10 days after discovery | | | | |
| **.605(d)** | Instructions to enable operation and maintenance personnel to recognize potential **Safety Related Conditions** | | | | | |

**Comments:**

## 49CFR PART 192

| .13(c) | CUSTOMER AND EFV INSTALLATION NOTIFICATION PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .16 | Procedures for notifying new customers, within **90 days**, of their responsibility for those selections of service lines not maintained by the operator. | | | | |
| | .381 | If EFVs are installed, do they meet the performance requirements of §192.381? | | | | |
| | .383 | Does the operator have a voluntary installation program for excess flow valves and does the program meet the requirements outlined in §192.383? Are records adequate? | | | | |
| | .383 | If the operator does not have a voluntary program for EFV installations, are customers notified in accordance with §192.383? Are records adequate? | | | | |

| .605(a) | NORMAL OPERATING and MAINTENANCE PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .605(a) | O&M Plan review and update procedure (**1 per year/15 months**) | | | | |
| | .605(b)(3) | Making construction records, maps, and operating history available to appropriate operating personnel | | | | |
| | .605(b)(5) | Start up and shut down of the pipeline to assure operation within **MAOP** plus allowable buildup | | | | |
| | .605(b)(8) | Periodically reviewing the work done by operator's personnel to determine the effectiveness and adequacy of the procedures used in normal operation and maintenance and modifying the procedures when deficiencies are found | | | | |
| | .605(b)(9) | Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapors or gas, and making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and a rescue harness and line | | | | |
| | .605(b)(10) | Routine inspection and testing of pipe-type or bottle-type holders | | | | |

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| | NORMAL OPERATING and MAINTENANCE PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .605(b)(11) | Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency proced. under §192.615(a)(3) specifically apply to these reports. | | | | |

**Comments:**

| .605(a) | CHANGE in CLASS LOCATION PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .609 | Class location study | | | | |
| | .611 | Confirmation or revision of MAOP | | | | |

**Comments:**

| .613 | CONTINUING SURVEILLANCE PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .613(a) | Procedures for surveillance and required actions relating to change in class location, failures, leakage history, corrosion, substantial changes in **CP** requirements, and unusual operating and maintenance conditions | | | | |
| | .613(b) | Procedures requiring **MAOP** to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition | | | | |

**Comments:**

| .605(a) | DAMAGE PREVENTION PROGRAM PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .614(c) | Participation in a qualified one-call program, or if available, a company program that complies with the following: | | | | |
| | | (1) Identify persons who engage in excavating | | | | |
| | | (2) Provide notification to the public in the One Call area | | | | |
| | | (3) Provide means for receiving and recording notifications of pending excavations | | | | |
| | | (4) Provide notification of pending excavations to the members | | | | |
| | | (5) Provide means of temporary marking for the pipeline in the vicinity of the excavations | | | | |
| | | (6) Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged | | | | |
| | | (i) Inspection must be done to verify integrity of the pipeline | | | | |
| | | (ii) After blasting, a leak survey must be conducted as part of the inspection by the operator | | | | |

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**Comments:**

| .615 | EMERGENCY PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .615(a)(1) | Receiving, identifying, and classifying notices of events which require immediate response by the operator | | | | |
| | .615(a)(2) | Establish and maintain communication with appropriate public officials regarding possible emergency | | | | |
| | .615(a)(3) | Prompt response to each of the following emergencies: | | | | |
| | | (i) Gas detected inside a building | | | | |
| | | (ii) Fire located near a pipeline | | | | |
| | | (iii) Explosion near a pipeline | | | | |
| | | (iv) Natural disaster | | | | |
| | .615(a)(4) | Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency | | | | |
| | .615(a)(5) | Actions directed towards protecting people first, then property | | | | |
| | .615(a)(6) | Emergency shutdown or pressure reduction to minimize hazards to life or property | | | | |
| | .615(a)(7) | Making safe any actual or potential hazard to life or property | | | | |
| | .615(a)(8) | Notifying appropriate public officials required at the emergency scene and coordinating planned and actual responses with these officials | | | | |
| | .615(a)(9) | Instructions for restoring service outages after the emergency has been rendered safe | | | | |
| | .615(a)(10) | Investigating accidents and failures as soon as possible after the emergency | | | | |
| | .615(b)(1) | Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action | | | | |
| | .615(b)(2) | Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training | | | | |
| | .615(b)(3) | Reviewing activities following emergencies to determine if the procedures were effective | | | | |
| | .615(c) | Establish and maintain liaison with appropriate public officials, such that both the operator and public officials are aware of each other's resources and capabilities in dealing with gas emergencies | | | | |

**Comments:**

| .605(a) | PUBLIC EDUCATION PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .616 | Establishing a continuing educational program (in English and other pertinent languages) to better inform the public in how to recognize and report potential gas pipeline emergencies [prior to June 20, 2006] | | | | |
| | .616 | Public Awareness Program in accordance with API RP 1162 [HQ clearinghouse review after June 20, 2006. Small propane distribution systems and master meter operators w/less than 25 customers – after June 20, 2007] | | | | |

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**Comments:**

| .617 | FAILURE INVESTIGATION PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .617 | Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence | | | | |

**Comments:**

| .605(a) | MAOP PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .619 | Establishing **MAOP** so that it is commensurate with the class location | | | | |
| | | **MAOP** can be determined by: | | | | |
| | | (a) Design and test or | | | | |
| | | (b) By highest operating pressure to which the segment of line was subjected between **July 1, 1965** and **July 1, 1970**. | | | | |
| | .621 | MAOP - High Pressure Distribution Systems | | | | |
| | .623 | Max./Min. Allowable Operating Pressure - Low Pressure Distribution Systems | | | | |

**Comments:**

| .13(c) | PRESSURE TEST PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|
| | .503 Pressure testing | | | | |

**Comments:**

| .605(a) | ODORIZATION of GAS PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .625(a) | Distribution lines must contain odorized gas. – must be readily detectable by person with normal sense of smell at $^{1}/_{5}$ of the LEL | | | | |
| | .625(f) | Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. | | | | |

**Comments:**

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| .605(a) | | TAPPING PIPELINES UNDER PRESSURE PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .627 | Hot taps must be made by a qualified crew<br>**NDT** testing is suggested prior to tapping the pipe. Reference API RP 2201 for **Best Practices**. | | | | |

**Comments:**

| .605(a) | | PIPELINE PURGING PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .629 | Purging of pipelines must be done to prevent entrapment of an explosive mixture in the pipeline | | | | |
| | | (a) Lines containing air must be properly purged. | | | | |
| | | (b) Lines containing gas must be properly purged | | | | |

**Comments:**

| .605(a) | | MAINTENANCE PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .703(b) | Each segment of pipeline that becomes unsafe must be replaced, repaired, or removed from service | | | | |
| | (c) | Hazardous leaks must be repaired promptly | | | | |

**Comments:**

| .605(b) | | DISTRIBUTION SYSTEM PATROLLING & LEAKAGE SURVEY PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .721(a) | Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage (i.e., consider cast iron, weather conditions, known slip areas, etc.) | | | | |
| | .721(b) | Mains in places or on structures where anticipated physical movement or external loading could cause failure or leakage must be patrolled . . . | | | | |
| | (b)(1) | In business districts at intervals not exceeding 4½ months, but at least four times each calendar year; and | | | | |
| | (b)(2) | Outside business districts at intervals not exceeding 7½ months, but at least twice each calendar year | | | | |
| | .723(a) & (b) | Periodic leak surveys determined by the nature of the operations and conditions. | | | | |
| | (b)(1) | In business districts as specified, **1/yr (15 months)** | | | | |
| | (b)(2) | Outside of business districts as specified, once every 5 calendar years/63 mos.; for unprotected lines subject to .465(e) where electrical surveys are impractical, once every 3 years/39 mos. | | | | |

**Comments:**

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| .605(b) | LINE MARKER PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .707 | Line markers installed and labeled as required | | | | |

**Comments:**

| .605(b) | TEST REQUIREMENTS FOR REINSTATING SERVICE LINES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .725(a) | Except for .725(b), disconnected service lines must be tested the same as a new service line. | | | | |
| | (b) | Service lines that are temporarily disconnected must be tested from the point of disconnection, the same as a new service line, before reconnect. See code for exception to this. | | | | |

**Comments:**

| .605(b) | ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .727(b) | Operator must disconnect both ends, purge, and seal each end before abandonment or a period of deactivation where the pipeline is not being maintained. | | | | |
| | (c) | Except for service lines, each inactive pipeline that is not being maintained under Part 192 must be disconnected from all gas sources/supplies, purged, and sealed at each end. | | | | |
| | (d) | Whenever service to a customer is discontinued, do the procedures indicate one of the following: | | | | |
| | | (1) The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator | | | | |
| | | (2) A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly | | | | |
| | | (3) The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed | | | | |
| | (e) | If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging | | | | |
| | .727(g) | Operator must file reports upon abandoning underwater facilities crossing navigable waterways, including offshore facilities. | | | | |

**Comments:**

| .605(b) | PRESSURE LIMITING and REGULATING STATION PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .739(a) | Inspection and testing procedures for pressure limiting stations, relief devices, pressure regulating stations and equipment (**1 per yr/15 months**) | | | | |
| | | (1) In good mechanical condition | | | | |
| | | (2) Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed | | | | |
| | | (3) Set to control or relieve at correct pressures consistent with .201(a), except for .739(b). | | | | |
| | . | (4) Properly installed and protected from dirt, liquids, and other conditions that may prevent proper operation | | | | |

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| | PRESSURE LIMITING and REGULATING STATION PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|
| | .739(b) For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi (414 kPa) gage or more . . . | | | | |
| | If MAOP produces hoop stress that / Then the pressure limit is:<br>Is greater than 72 percent of SMYS / MAOP plus 4 percent<br>Is unknown as a percent of SMYS / A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP | | | | |
| | .741 Telemetering or Recording Gauges | | | | |
| | (a) In place to indicate gas pressure in the district that is supplied by more than one regulating station | | | | |
| | (b) Determine the need in a distribution system supplied by only one district station | | | | |
| | (c) Inspect equipment and take corrective measures when indications of abnormally high or low pressure | | | | |
| | .743 Testing of Relief Devices | | | | |
| | .743 (a) Capacity must be consistent with .201(a) except for .739(b), and be determined **1 per yr/15 mo.** | | | | |
| | (b) If calculated, capacities must be compared; annual review and documentation are required. | | | | |
| | (c) If insufficient capacity, new or additional devices must be installed to provide required capacity. | | | | |

**Comments:**

| .605(b) | VALVE AND VAULT MAINTENANCE PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|
| | **Distribution Valves** | | | | |
| | .747 (a) Check and service each valve that may be necessary for the safe operation of a distribution system (**1 per yr/15 months**) | | | | |
| | (b) Prompt remedial action required, or designate alternative valve. | | | | |
| | **Vaults** | | | | |
| | .749 Inspection of vaults greater than **200 cubic feet** (**1 per yr/15 months**) | | | | |

| .605(b) | PREVENTION of ACCIDENTAL IGNITION PROCEDURES | S | U | N/A | N/C |
|---|---|---|---|---|---|
| | .751 Reduce the hazard of fire or explosion by: | | | | |
| | (a) Removal of ignition sources in presence of gas and providing for a fire extinguisher | | | | |
| | (b) Prevent welding or cutting on a pipeline containing a combustible mixture | | | | |
| | (c) Post warning signs | | | | |

**Comments:**

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| .605(b) | CAULKED BELL AND SPIGOT JOINTS PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .753 | Cast-iron caulked bell and spigot joint repair: | | | | |
| | | (a) When subject to more than 25 psig, sealed with mechanical clamp, or sealed with material/device which does not reduce flexibility, permanently bonds, and seals and bonds as prescribed in §192.753(a)(2)(iii) | | | | |
| | | (b) When subject to 25 psig or less, joints, when exposed for any reason, must be sealed by means other than caulking | | | | |

| .605(b) | PROTECTING CAST-IRON PIPELINE PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .755 | Operator has knowledge that the support for a segment of a buried cast-iron pipeline is disturbed must provide protection. | | | | |
| | | (a) Vibrations from heavy construction equipment, trains, trucks, buses or blasting? | | | | |
| | | (b) Impact forces by vehicles? | | | | |
| | | (c) Earth movement? | | | | |
| | | (d) Other foreseeable outside forces which might subject the segment of pipeline to a bending stress | | | | |
| | | (e) Provide permanent protection for the disturbed section as soon as feasible | | | | |

| .13(c) | WELDING AND WELD DEFECT REPAIR/REMOVAL PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .225 | (a) Welding procedures must be qualified under **Section 5 of API 1104** (19th ed.1999, 10/31/01 errata) or **Section IX of ASME Boiler and Pressure Code** (2001 ed.) by destructive test. | | | | |
| | | (b) Retention of welding procedure – details and test | | | | |
| | .227 | (a) Welders must be qualified by **Section 6 of API 1104** (19th ed.1999, 10/31/01 errata) or **Section IX of ASME Boiler and Pressure Code** (2001 ed.) See exception in .227(b). | | | | |
| | | (b) Welders may be qualified under **section I of Appendix C** to weld on lines that operate at **< 20% SMYS.** | | | | |
| | .229 | (a) To weld on compressor station piping and components, a welder must successfully complete a destructive test | | | | |
| | | (b) Welder must have used welding process within the preceding **6 months** | | | | |
| | | (c) A welder qualified under .227(a)– | | | | |
| | .229(c) | (1) May not weld on pipe that operates at ≥ 20% SMYS unless within the preceding 6 calendar months the welder has had one weld tested and found acceptable under the **sections 6 or 9 of API Standard 1104**; may maintain an ongoing qualification status by performing welds tested and found acceptable at least **twice per year**, not exceeding **7½ months**; may not requalify under an earlier referenced edition. | | | | |
| | | (2) May not weld on pipe that operates at < 20% SMYS unless is tested in accordance with .229(c)(1) or requalifies under .229(d)(1) or (d)(2). | | | | |
| | | (d) Welders qualified under .227(b) may not weld unless: | | | | |
| | | (1) Requalified within **1 year/15 months**, or | | | | |
| | | (2) Within **7½ months** but at least **twice per year** had a production weld pass a qualifying test | | | | |
| | .231 | Welding operation must be protected from weather | | | | |
| | .233 | Miter joints (**consider pipe alignment**) | | | | |
| | .235 | Welding preparation and joint alignment | | | | |
| | .241 | (a) Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: | | | | |
| | | (1) Compliance with the welding procedure | | | | |
| | | (2) Weld is acceptable in accordance with **Section 9 of API 1104** | | | | |
| | | (b) Welds on pipelines to be **operated at 20% or more of SMYS** must be nondestructively tested in accordance with **192.243** except welds that are visually inspected and approved by a qualified welding inspector if: | | | | |
| | | (1) The nominal pipe diameter is less than **6 inches**, or | | | | |
| | | (2) The pipeline is to operate at a pressure that produces a hoop stress of less than **40% of SMYS** and the welds are so limited in number that nondestructive testing is impractical | | | | |

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| .13(c) | WELDING AND WELD DEFECT REPAIR/REMOVAL PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .241 | (c) Acceptability based on visual inspection or NDT is determined according to **Section 9 of API 1104.** If a girth weld is unacceptable under **Section 9** for a reason other than a crack, and if **Appendix A to API 1104** applies to the weld, the acceptability of the weld may be further determined under that appendix. | | | | |
| | | Repair and Removal of Weld Defects | | | | |
| | .245 | (a) Each weld that is unacceptable must be removed or repaired. Except for offshore pipelines, a weld must be removed if it has a crack that is more than **8%** of the weld length | | | | |
| | | (b) Each weld that is repaired must have the defect removed down to sound metal, and the segment to be repaired must be preheated if conditions exist which would adversely affect the quality of the weld repair. After repair, the weld must be inspected and found acceptable. | | | | |
| | | (c) Repair of a crack or any other defect in a previously repaired area must be in accordance with a written weld repair procedure, qualified under **§192.225** | | | | |
| | | • Sleeve Repair – low hydrogen rod (**Best Practices –ref. API 1104 App. B, In Service Welding**) | | | | |

**Comments:**

| .13(c) | NONDESTRUCTIVE TESTING PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .243 | (a) Nondestructive testing of welds must be performed by any process, other than trepanning, that clearly indicates defects that may affect the integrity of the weld | | | | |
| | | (b) Nondestructive testing of welds must be performed: | | | | |
| | | (1) In accordance with a written procedure, and | | | | |
| | | (2) By persons trained and qualified in the established procedures and with the test equipment used | | | | |
| | | (c) Procedures established for proper interpretation of each nondestructive test of a weld to ensure acceptability of the weld under **192.241©** | | | | |
| | | (d) When nondestructive testing is required under **§192.241(b)**, the following percentage of each day's field butt welds, selected at random by the operator, must be nondestructively tested over the entire circumference | | | | |
| | | (1) In **Class 1** locations at least **10%** | | | | |
| | | (2) In **Class 2** locations at least **15%** | | | | |
| | | (3) In **Class 3** and **4** locations, at crossings of a major navigable river, offshore, and within railroad or public highway rights-of-way, including tunnels, bridges, and overhead road crossings, **100%** unless impractical, then **90%**. Nondestructive testing must be impractical for each girth weld not tested. | | | | |
| | | (4) At pipeline tie-ins, **100%** | | | | |
| | | (e) Except for a welder whose work is isolated from the principal welding activity, a sample of each welder's work for each day must be nondestructively tested, when nondestructive testing is required under **§192.241(b)** | | | | |
| | | (f) Nondestructive testing – the operator must retain, for the life of the pipeline, a record showing by mile post, engineering station, or by geographic feature, the number of welds nondestructively tested, the number of welds rejected, and the disposition of the rejected welds. | | | | |

**Comments:**

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| .273(b) | JOINING of PIPELINE MATERIALS | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .281 | Joining of plastic pipe | | | | |
| | | • Type of plastic used | | | | |
| | | • Proper markings in accordance with **§192.63** | | | | |
| | | • Manufacturer | | | | |
| | | • Type of joint used | | | | |
| | .283 | Qualified joining procedures for plastic pipe must be in place | | | | |
| | .285 | Persons making joints with plastic pipe must be qualified | | | | |
| | .287 | Persons inspecting plastic joints must be qualified | | | | |

**Comments:**

| .605(b) | CORROSION CONTROL PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| | .453 | Are corrosion procedures established for: | | | | |
| | | • Design | | | | |
| | | • Operations | | | | |
| | | • Installation | | | | |
| | | • Maintenance | | | | |
| | .455 | (a) For pipelines installed **after July 31, 1971**, buried segments must be externally coated and (b) cathodically protected within **one year** after construction (see exceptions in code) | | | | |
| | | (c) Aluminum may not be installed in a buried or submerged pipeline if exposed to an environment with a natural **pH in excess of 8** (see exceptions in code) | | | | |
| | .457 | (a) All effectively coated steel transmission pipelines installed prior to **August 1, 1971**, must be cathodically protected | | | | |
| | | (b) If installed **before August 1, 1971**, cathodic protection must be provided in areas of active corrosion for: bare or ineffectively coated transmission lines, and bare or coated c/s, regulator sta., meter sta. piping, and (except for cast iron or ductile iron) bare or coated distribution lines. | | | | |
| | .459 | Examination of buried pipeline when exposed: if corrosion is found, further investigation is required | | | | |
| | .461 | Procedures must address the protective coating requirements of the regulations. External coating on the steel pipe must meet the requirements of this part. | | | | |
| | .463 | Cathodic protection level according to **Appendix D** criteria | | | | |
| | .465 | (a) Pipe-to-soil monitoring (**1 per yr/15 months**) | | | | |
| | | (b) Rectifier monitoring (**6 per yr/2½ months**) | | | | |
| | | (c) Interference bond monitoring (**as required**) | | | | |
| | | (d) Prompt remedial action to correct any deficiencies indicated by the monitoring | | | | |
| | .465 | (e) Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (**1 per 3 years/39 months**) | | | | |
| | .467 | Electrical isolation (**include casings**) | | | | |
| | .469 | Sufficient test stations to determine CP adequacy | | | | |
| | .471 | Test lead maintenance | | | | |
| | .473 | Interference currents | | | | |
| | .475 | (a) Proper procedures for transporting corrosive gas? | | | | |
| | | (b) Removed pipe must be inspected for internal corrosion. If found, the adjacent pipe must be inspected to determine extent. Certain pipe must be replaced. Steps must be taken to minimize internal corrosion. | | | | |
| | .477 | Internal corrosion control coupon (or other suit. Means) monitoring (**2 per yr/7½ months)** | | | | |

# State of Louisiana Comprehensive Inspection Form – Gas Distribution Pipeline

**Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked**

| | CORROSION CONTROL PROCEDURES | | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|---|
| .479 | (a) | Each exposed pipe must be cleaned and coated (see exceptions under **.479(c)**) | | | | | |
| | | Offshore splash zones and soil-to-air interfaces must be coated | | | | | |
| | (b) | Coating material must be suitable | | | | | |
| | | Coating is not required where operator has proven that corrosion will: | | | | | |
| | (c) | (1) Only be a light surface oxide, or | | | | | |
| | | (2) Not affect safe operation before next scheduled inspection | | | | | |
| .481 | (a) | Atmospheric corrosion control monitoring (**1 per 3 yrs/39 months onshore**) | | | | | |
| .481 | (b) | Special attention required at soil/air interfaces, thermal insulation, under disbonded coating, pipe supports, splash zones, deck penetrations, spans over water | | | | | |
| .481 | (c) | Protection must be provided if atmospheric corrosion is found (**per §192.479**) | | | | | |
| .483 | Replacement and required pipe must be coated and cathodically protected (see code for exceptions) | | | | | | |
| .485 | (a) | Procedures to replace pipe or reduce the **MAOP** if general corrosion has reduced the wall thickness? | | | | | |
| | (b) | Procedures to replace/repair pipe or reduce **MAOP** if localized corrosion has reduced wall thickness (unless reliable engineering repair method exists)? | | | | | |
| | (c) | Procedures to use **Rstreng** or **B-31G** to determine remaining wall strength? | | | | | |
| .487 | Remedial measures (distribution lines other than cast iron or ductile iron) | | | | | | |
| .489 | Remedial measures (cast iron and ductile iron pipelines) | | | | | | |
| .491 | Corrosion control maps and record retention (**pipeline service life or 5 yrs**) | | | | | | |

**Comments:**

# State of Louisiana Comprehensive Inspection Form – Gas Distribution Pipeline

**Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked**

| | PIPELINE INSPECTION (Field) | S | U | N/A | N/C |
|---|---|---|---|---|---|
| .179 | Valve Protection from Tampering or Damage | | | | |
| .463 | Cathodic Protection | | | | |
| .465 | Rectifiers | | | | |
| .479 | Pipeline Components Exposed to the Atmosphere | | | | |
| .605 | Knowledge of Operating Personnel | | | | |
| .707 | ROW Markers, Road and Railroad Crossings | | | | |
| .503 | Pre-pressure Tested Pipe (**Markings and Inventory**) | | | | |
| .739 | Pressure Limiting and Regulating Devices (**Mechanical**) | | | | |
| .741 | Telemetering, Recording gauges | | | | |
| .743 | Pressure Limiting and Regulating Devices (**Capacities**) | | | | |
| .747 | Valve Maintenance | | | | |
| .751 | Warning Signs | | | | |

**Comments:**

| | REGULATORY REPORTING RECORDS | S | U | N/A | N/C |
|---|---|---|---|---|---|
| 191.5 | Telephonic reports to NRC | | | | |
| 191.15 | Written incident reports; supplemental incident reports **(Form F 7100.2)** | | | | |
| 191 | Annual Reports (**Forms 7100.1-1, 7100.2-1)** | | | | |
| 191.23 | Safety related condition reports | | | | |
| 192.16 | Customer Notification (**Verification – 90 days – and Elements**) | | | | |
| 192.727 (g) | Abandoned facilities offshore, onshore crossing commercially navigable waterways reports | | | | |

| | CONSTRUCTION RECORDS | S | U | N/A | N/C |
|---|---|---|---|---|---|
| .225 | Test Results to Qualify Welding Procedures | | | | |
| .227 | Welder Qualification | | | | |
| .241 (a) | Visual Weld Inspector Training/Experience | | | | |
| .243 (b)(2) | Nondestructive Technician Qualification | | | | |
| (c) | NDT procedures | | | | |
| (f) | Total Number of Girth Welds | | | | |
| (f) | Number of Welds Inspected by NDT | | | | |
| (f) | Number of Welds Rejected | | | | |
| (f) | Disposition of each Weld Rejected | | | | |
| .303 | Construction Specifications | | | | |
| .325 | Underground Clearance | | | | |
| .327 | Amount, Location, Cover of each Size of Pipe Installed | | | | |
| .455 | Cathodic Protection | | | | |

# State of Louisiana Comprehensive Inspection Form – Gas Distribution Pipeline

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| OPERATIONS and MAINTENANCE RECORDS | | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| .517 (a) | | Pressure Testing (operates at or above 100 psig) – **useful life of pipeline** | | | | |
| .517 (b) | | Pressure Testing (operates below 100 psig, service lines, plastic lines) – **5 years** | | | | |
| .603(b) | .605(a) | Procedural Manual Review – Operations and Maintenance (**1 per yr/15 months**) | | | | |
| | .605(b)(3) | Availability of construction records, maps, operating history to operating personnel | | | | |
| | .605(b)(8) | Periodic review of personnel work – effectiveness of normal O&M procedures | | | | |
| | .605(c)(4) | Periodic review of personnel work – effectiveness of abnormal operation procedures | | | | |
| .603(b) | .614 | Damage Prevention (**Miscellaneous**) | | | | |
| | .609 | Class Location Study (**If Applicable**) | | | | |
| .603(b) | .615(b)(1) | Location Specific Emergency Plan | | | | |
| | .615(b)(2) | Emergency Procedure training, verify effectiveness of training | | | | |
| | .615(b)(3) | Employee Emergency activity review, determine if procedures were followed. | | | | |
| | .615(c) | Liaison Program with Public Officials | | | | |
| | .616 | Public Education/Awareness Program | | | | |
| .517 | | Pressure Testing | | | | |
| .603(b) | .619 .621 .623 | Maximum Allowable Operating Pressure (**MAOP**) | | | | |
| | .625 | Odorization of Gas | | | | |
| .603(b) | .721(b)(1) | Patrolling Business District (**4 per yr/4½ months**) | | | | |
| | .721(b)(2) | Patrolling Outside Business District (**2 per yr/7½ months**) | | | | |
| | .723(b)(1) | Leakage Survey – business District (**1 per yr/15 months**) | | | | |
| | .723(b)(2) | Leakage Survey | | | | |
| | | ▪ Outside Business District (**5 years**) | | | | |
| | | ▪ Cathodically unprotected distribution lines (**3 years**) | | | | |
| | .725 | Tests for reinstating service lines | | | | |
| .603b/.727g | .727 | Abandoned Pipelines; Underwater Facility Reports | | | | |
| .603(b) | .739 | Pressure Limiting and Regulating Stations (**1 per yr/15 months**) | | | | |
| | .743 | Pressure Limiting and Regulator Stations – Capacity (**1 per yr/15 months**) | | | | |
| .603(b) | .747 | Valve Maintenance Distribution Lines (**1 per yr/15 months**) | | | | |
| .603(b) | .749 | Vault Maintenance (**≥200 cubic feet**)(**1 per yr/15 months**) | | | | |
| .603(b) | .751 | Prevention of Accidental Ignition (hot work permits) | | | | |
| | .755 | Caulked Bell and Spigot Joint Repair | | | | |
| | .225(b) | Welding – Procedure | | | | |
| | .227/.229 | Welding – Welder Qualification | | | | |
| | .243(b)(2) | NDT – NDT Personnel Qualification | | | | |
| .709 | .243(f) | NDT Records (**Pipeline Life**) | | | | |
| | | Repair: pipe (**Pipeline Life**); Other than pipe (**5 years**) | | | | |

**Comments:**

# State of Louisiana Comprehensive Inspection Form – Gas Distribution Pipeline

**Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked**

| CORROSION CONTROL RECORDS | | | S | U | N/A | N/C |
|---|---|---|---|---|---|---|
| .491 | .491(a) | Maps or Records | | | | |
| .491 | .459 | Examination of Buried Pipe when Exposed | | | | |
| .491 | .465(a) | Annual Pipe-to-soil Monitoring (**1 per yr/15 months**) | | | | |
| .491 | .465(b) | Rectifier Monitoring (**6 per yr/2½ months**) | | | | |
| .491 | .465(c) | Interference Bond Monitoring – Critical (**6 per yr/2½ months**) | | | | |
| .491 | .465(c) | Interference Bond Monitoring – Non-critical (**1 per yr/15 months**) | | | | |
| .491 | .465(d) | Prompt Remedial Actions | | | | |
| .491 | .465(e) | Unprotected Pipeline Surveys, CP active corrosion areas (**1 per 3 cal yr/39 months**) | | | | |
| .491 | .467 | Electrical Isolation (**Including Casings**) | | | | |
| .491 | .469 | Test Stations – Sufficient Number | | | | |
| .491 | .471 | Test Lead Maintenance | | | | |
| .491 | .473 | Interference Currents | | | | |
| .491 | .475(a) | Internal Corrosion; Corrosive Gas Investigation | | | | |
| .491 | .475(b) | Internal Corrosion; Internal Surface Inspection; Pipe Replacement | | | | |
| .491 | .477 | Internal Corrosion Control Coupon Monitoring (**2 per yr/7½ months**) | | | | |
| .491 | .481 | Atmospheric Corrosion Control Monitoring (**1 per 3 cal yr/39 months**) | | | | |
| .491 | .483/.485 | Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions | | | | |

**Comments:**